

Form PTO-1449
(Rev. 3-83)U.S. Department of Commerce
Patent and Trademark Office

Atty Docket 0750-2544

Serial No. 09/916,484

INFORMATION DISCLOSURE STATEMENT

OCT 15 2001

Applicants: Shunpei YAMAZAKI et al.

Filing Date: July 30, 2001

Group Art Unit: N/A 22

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF	4,783,145	11/08/1988	Hatanaka et al.			
SF	5,598,106	01/28/1997	Kawasaki			
SF	5,998,841	12/07/1999	Suzawa			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes Eng Abst No
P10 filed 1449 7/30/01	1-194351	08/04/1989	JP			Eng Abst
P10 filed 1449 7/30/01	2-089030	03/29/1990	JP			Eng Abst
P10 filed 1449 7/30/01	3-154383	07/02/1991	JP			Eng Abst
P10 filed 1449 7/30/01	4-151820	05/25/1992	JP			Eng Abst
P10 filed 1449 7/30/01	4-155960	05/28/1992	JP			Eng Abst
11	53-144297	12/15/1978	JP			Eng Abst
11	55-011329	01/26/1980	JP			Eng Abst
11	57-099778	06/21/1982	JP			Eng Abst
11	59-081621	05/11/1984	JP			Eng Abst
11	59-159544	09/10/1984	JP			Eng Abst
11	60-113971	06/20/1985	JP			Eng Abst
11	62-120354	07/30/1987	JP			Conc Stmt
11	62-269358	11/21/1987	JP			Eng Abst
11	62-282464	12/08/1987	JP			Eng Abst
11	63-096636	04/27/1988	JP			Eng Abst
11	63-159826	07/02/1988	JP			Eng Abst

Examiner SUK-SAN FOONG

Date Considered 2/10/2002

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Form PTO-1449 (Rev. 8-83)			U.S. Department of Commerce Patent and Trademark Office			Attorney Docket: 740756-2344			Serial No. Not Yet Assigned			
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)												
						Applicant: Shunpei YAMAZAKI et al.						
						Filing Date: July 30, 2001			Group: 2826			
j1046 U.S. PTO 09/916484 07/30/01												
U.S. PATENT DOCUMENTS												
Examiner Initial		Document Number						Date	Name	Class	Subclass	Filing Date (if appropriate)
SF		4	5	2	5	4	3	6	06/25/85	Yamazaki	—	—
SF		4	5	9	7	1	6	0	07/01/86	Ipri	—	—
SF		4	7	2	7	0	4	4	02/23/88	Yamazaki	—	—
SF		4	9	3	0	8	7	4	06/05/90	Mitsumune et al.	—	—
SF		4	9	3	8	5	6	5	07/03/90	Ichikawa	—	—
SF		4	9	9	4	8	7	7	02/19/91	Ino et al.	—	—
SF		4	9	4	2	4	4	1	07/17/90	Konishi et al.	—	—
SF		4	9	5	9	7	0	0	09/25/90	Yamazaki	—	—
SF		5	1	2	2	8	8	9	06/16/92	Kaneko et al.	—	—
SF		5	1	6	2	9	0	1	11/10/92	Shimada et al.	—	—
SF		5	1	6	5	0	7	5	11/17/92	Hiroki et al.	—	—
SF		5	1	9	3	0	1	8	03/09/93	Wu	—	—
SF		5	2	1	8	4	6	4	06/08/93	Hiroki et al.	—	—
SF		5	2	7	4	2	7	9	12/28/93	Misawa et al.	—	—
SF		5	2	8	7	0	9	5	02/15/94	Kitazima et al.	—	—
SF		5	2	8	9	0	3	0	02/94	Yamazaki et al.	—	—
SF		5	2	9	4	5	5	5	03/15/94	Mano et al.	—	—
SF		5	2	9	4	8	1	1	03/15/94	Aoyama et al.	—	—
FOREIGN PATENT DOCUMENTS												
		Document Number						Date	Country	Class	Subclass	Translation Yes No
SF		0	1	9	4	3	5	1	8/1989	Japan	—	—
SF	b3	1	5	4	3	8	3	7/1991	Japan	—	—	—
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)												
Examiner	SUK-SUN FOONG						Date Considered 2/10/2000					
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	4	7	7	5	6	4	1	10/04/88	Duffy et al.	—	—	
<i>SF</i>	4	8	1	6	8	9	3	03/28/89	Mayer et al.	—	—	
<i>SF</i>	4	9	1	6	0	9	0	04/10/90	Motai et al.	—	—	
<i>SF</i>	5	1	1	1	2	6	1	05/05/92	Tanaka et al.	—	—	
<i>SF</i>	4	9	6	0	7	1	9	10/02/90	Tanaka et al.	—	—	
<i>SF</i>	4	7	0	9	9	9	3	12/01/87	Kurabayashi et al.	—	—	
<i>SF</i>	4	7	6	9	7	1	3	09/06/88	Yasui	—	—	
<i>SF</i>	4	7	8	3	1	4	5	11/08/88	Hatanaka et al.	—	—	
<i>SF</i>	4	8	0	8	9	9	1	02/28/89	Tachiuchi et al.	—	—	
<i>SF</i>	4	8	8	4	0	7	9	11/28/89	Inoue et al.	—	—	
FOREIGN PATENT DOCUMENTS												
	Document Number						Date	Country	Class	Subclass	Translation Yes No	
<i>SF</i>	0	0	1	1	3	2	9	01/26/80	Japan	—	—	
<i>SF</i>	609	1	1	3	9	7	1	06/20/85	Japan	—	—	
<i>SF</i>	629	2	6	9	3	5	8	11/21/87	Japan	—	—	
<i>SF</i>	629	2	8	2	4	6	4	12/08/87	Japan	—	—	
<i>IDS #2 sheet</i>	0	1	5	4	3	8	3	07/02/91	Japan	—	—	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)												
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U.S. PATENT DOCUMENTS

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SF	4	9	2	9	0	5	8	05/29/90	Numao	—	—	
SF	5	2	8	0	2	8	0	01/18/94	Hotto	—	—	
SF	5	3	4	9	3	6	6	09/20/94	Yamazaki et al.	—	—	
SF	5	4	1	4	4	4	2	05/09/95	Yamazaki et al.	—	—	
SF	4	3	8	0	0	0	8	04/12/83	Kawakami et al.	—	—	
SF	4	4	1	3	2	5	6	11/01/83	Yasuda et al.	—	—	
SF	4	6	0	5	9	7	2	08/12/86	Hatanaka	—	—	
SF	4	6	4	1	1	5	6	02/03/87	Ohta et al.	—	—	
SF	4	8	1	8	0	7	7	04/04/89	Ohwada et al.	—	—	
SF	4	8	3	6	6	5	4	06/06/89	Fujimura et al.	—	—	
SF	4	9	3	8	5	6	5	07/03/90	Ichikawa	—	—	
SF	5	1	1	7	2	9	8	05/26/92	Hirai	—	—	
SF	5	1	6	5	0	7	3	11/17/92	Hiroki et al.	—	—	

FOREIGN PATENT DOCUMENTS

	Document Number							Date	Country	Class	Subclass	Translation Yes No
SF	510	70	9	9	7	7	8	06/21/82	Japan	—	—	
SF	50	1	5	9	5	4	4	09/10/84	Japan	—	—	
SF	0	1	5	9	8	2	6	07/02/88	Japan	—	—	
SF	20	0	8	9	0	3	0	03/29/90	Japan	—	—	
SF	630	0	9	6	6	3	6	04/27/88	Japan	—	—	
SF	0	1	4	4	2	9	7	12/15/78	Japan	—	—	
SF	510	0	8	1	6	2	1	05/11/84	Japan	—	—	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)Examiner SUKSAN FOONGDate Considered 2/16/2002

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U.S. PATENT DOCUMENTS												
Examiner Initial		Document Number				Date	Name	Class	Subclass	Filing Date (if appropriate)		
SF		4	5	5	7	0	3	6	12/10/85	Kyuragi et al.	—	—
SF		4	9	0	5	0	6	6	02/27/90	Dohjo et al.	—	—
SF		4	4	6	8	8	5	5	09/04/84	Sasaki	—	—
SF		4	7	4	6	6	2	8	05/24/88	Takafuji et al.	—	—
SF		5	1	3	2	6	7	7	07/92	Nicholas	—	—
SF		5	2	1	8	4	6	4	06/08/93	Hiroki et al.	—	—
SF		5	0	9	7	3	1	1	03/17/92	Iwase et al.	—	—
FOREIGN PATENT DOCUMENTS												
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SF		0	1	4	4	2	9	7	12/78	Japan	—	—
SF		5	8	3	2	4	6	6	02/83	Japan	—	—
SF		58	1	2	4	2	7	3	07/83	Japan	—	—
SF		58	1	5	8	9	6	7	09/83	Japan	—	—
SF		58	1	1	5	8	6	4	07/83	Japan	—	—
SF		62	1	2	4	7	6	9	06/87	Japan	—	—
SF		5	8	8	1	9	7	2	07/81	Japan	—	—
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U.S. PATENT DOCUMENTS							
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)	
SF	5,170,244	12/8/92	Dohjo et al.	—	—		
SF	5,323,042	6/21/94	Matsumoto	—	—		
SF	5,701,166	12/23/97	Fedorovich et al.	—	—		
SF	4,716,403	12/29/87	Morozumi	—	—		
SF	5,530,266	6/25/96	Yonehara et al.	—	—		
SF	5,525,822	6/11/96	Vinal	—	—		
SF	4,623,908	11/18/86	Oshima et al.	—	—		
SF	5,100,822	3/31/92	Mitani	—	—		
SF	5,821,559	10/13/98	Yamazaki et al.	—	—		
SF	4,838,654	6/1989	Hamaguchi et al.	—	—		
SF	4,432,610	2/1984	Kobayashi et al.	—	—		
SF	5,459,090	10/1995	Yamazaki et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation Yes No	
SF	404,220,627 A 4-220627	8/1992	Japan				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
SF		4,357,179	11/02/82	Adams et al.	148	1.5	12/23/80
SF		4,757,028	07/12/88	Kondoh et al.	437	40	10/02/86
SF		4,762,806	08/09/88	Suzuki et al.	437	100	12/19/84
SF		4,762,807	08/09/88	Yamazaki	437	100	08/13/86
SF		5,053,354	10/01/91	Tanaka et al.	437	101	06/08/90
SF		5,272,361	12/21/93	Yamazaki	257	66	11/01/91
SF		5,275,872	01/04/94	Chang	428	210	08/08/91
SF		5,365,080	11/15/94	Yamazaki et al.	257	66	02/14/94
SF		5,485,019	01/16/96	Yamazaki et al.	257	57	02/03/93
SF		5,514,879	05/07/96	Yamazaki	257	65	06/07/95
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	<u>Translation</u> Yes No
SF		58-118154	07/14/83	Japan	H01L	29/78	Abstract
SF		58-206121	12/01/83	Japan	H01L	21/265	Full
SF		58-206163	12/01/83	Japan	H01L	29/78	Abstract
SF		59-33877	02/23/84	Japan	H01L	29/78	Abstract
SF		60-98680	06/01/85	Japan	H01L	29/78	Abstract
SF		60-109282	06/14/85	Japan	H01L	29/78	Abstract
SF		60-245172	12/04/85	Japan	H01L	29/78	Abstract
SF		61-87371	05/02/86	Japan	H01L	29/78	Abstract
SF		61-187274	08/20/86	Japan	H01L	29/78	Abstract
SF		61-263273	11/21/86	Japan	H01L	29/78	Abstract
SF		2-103925	04/17/90	Japan	H01L	21/20	Abstract
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U.S. PATENT DOCUMENTS							
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)	
SF	5,821,559	10/13/1998	Yamazaki et al.	—	—		
SF	5,719,422	02/17/1998	Burr et al.	—	—		
SF	5,854,494	12/29/1998	Yamazaki et al.	—	—		
SF	5,894,151	04/13/1999	Yamazaki et al.	—	—		
SF	4,783,145	11/08/1988	Hatamaka et al.	—	—		
SF	4,709,995	12/01/1987	Kurabayashi et al.	—	—		
SF	6,028,333	02/22/2000	Yamazaki et al.	—	—		
SF	5,075,674	12/24/1991	Katayama et al.	—	—		
SF	5,159,477	10/27/1992	Shimada et al.	—	—		
SF	5,528,056	06/18/1996	Shimada et al.	—	—		
SF	5,210,050	05/11/1993	Yamazaki et al.	—	—		
SF	5,744,818	04/28/1998	Yamazaki et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
SF	2-130912	5/18/90	Japan	—	—	Abstract	No
SF	2-207537	8/17/90	Japan	—	—	Abstract	
SF	4-88642	3/23/92	Japan	—	—	Abstract	
SF	4-267563	9/24/92	Japan	—	—	Abstract	
SF	5-121440	5/18/93	Japan	—	—	Abstract	
SF	02-222545	09/05/190	Japan	—	—	Full	
SF	04-151820	05/25/1992	Japan	—	—	Full	
SF	04-155960	05/28/1992	Japan	—	—	Full	
SF	62-120354	07/30/1987	Japan	—	—	Full	
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U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
SF	5,097,311	03/17/92	Iwase et al.	—	—	
SF	4,905,066	02/27/90	Dohjo et al.	—	—	
SF	4,746,628	05/24/88	Takafuji et al.	—	—	
SF	4,557,036	12/10/85	Kyuragi et al.	—	—	
SF	4,468,855	09/04/84	Sasaki	—	—	
SF	5,132,677	07/21/92	Nicholas	—	—	
SF	5,218,464	06/08/93	Hiroki et al.	—	—	
SF	5,642,213	06/24/97	Mase et al.	—	—	
SF	5,369,315	11/29/94	Tran	—	—	
SF	5,272,389	12/21/93	Hatada	—	—	
SF	5,136,190	08/04/92	Chern et al.	—	—	
SF	4,594,519	06/10/86	Ohtani et al.	—	—	
SF	4,593,214	06/03/86	Proebsting	—	—	
SF	4,527,254	07/02/85	Ryan et al.	—	—	
SF	4,518,873	05/21/85	Suzuki et al.	—	—	
SF	4,499,388	02/12/85	Adam	—	—	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No
97	62-124769	06/06/87	Japan	—	—	Abstract
44	58-81972	05/17/83	Japan	—	—	Abstract
44	58-32466	02/25/83	Japan	—	—	Abstract
44	58-158967	09/21/83	Japan	—	—	Abstract
44	58-115864	07/09/83	Japan	—	—	Abstract
44	1-144297	06/06/89	Japan	—	—	X
SF	56-81972	07/04/81	Japan	—	—	Abstract

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

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U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
SF	4,490,629	12/25/84	Barlow et al.	-	-	
SF	4,481,432	11/06/84	Davies, Jr.	-	-	
SF	4,465,945	08/14/84	Yin	-	-	
SF	4,454,571	06/12/84	Miyashita	-	-	
SF	4,443,715	04/17/84	Fox	-	-	
SF	4,274,014	06/16/81	Schade, Jr.	-	-	
SF	4,185,209	01/22/80	Street	-	-	
SF	4,069,430	01/17/78	Masuda	-	-	
SF	3,818,245	06/18/74	Suzuki et al.	-	-	
SF	5,457,420	10/10/95	Asada	-	-	
SF	4,857,763	08/15/89	Sakurai et al.	-	-	
SF	4,704,547	11/03/87	Kirsch	-	-	
SF	5,598,106	01/28/97	Kawasaki et al.	-	-	

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